

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0007_01_s _ 2013_1				
Comment Code					
Inspector Comment					
There will be new O&M manuals when the levee is turned back over to the LMA after construction is complete. The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0007_01_s _ 2013_3				
Comment Code					
Inspector Comment					
Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_MA0007_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.					

No Photos

LM Start	0.01	Rating **	A/W	Issue No.	44
LM End	11.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.311020 °	39.439702 °	
			-121.637668 °	-121.641659 °	
DWR ID	DWR_MA0007_01_s_2017_44				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Controlled annual vegetation.					

Photo 1 of 1 : SP_2017_MA0007_200_44_20170327_00129.jpg



View of well maintained vegetation, water side looking upstream. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	0.03	Rating **	U	Issue No.	42 (cont)
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.311297 °	39.334365 °
				-121.637490 °	-121.633975 °
DWR ID	DWR_MA0007_01_s _ 2012_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion along landward levee slope due to agricultural ditch.					

Photo 2 of 2 : SP_2017_MA0007_200_42_20170316_00004.jpg



This photo was taken from the levee crown facing north looking at the erosion along the landward levee slope due to an agricultural ditch. Spring 2014.

LM Start	0.12	Rating **	A	Issue No.	41
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.312567 °	39.324458 °
				-121.636964 °	-121.631803 °
DWR ID	DWR_MA0007_01_s _ 2017_41				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
View of controlled vegetation.					

Photo 1 of 1 : SP_2017_MA0007_200_41_20170327_00117.jpg



View of controlled vegetation looking upstream on the water side. Spring 2017.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	0.31	Rating **	N	Issue No.	69
LM End	0.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.314991 °	39.315693 °
				-121.635038 °	-121.634459 °
DWR ID	DWR_MA0007_01_s_2016_69				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Several tree stumps at levee toe.					

Photo 1 of 1 : SP_2017_MA0007_200_69_20170316_00016.jpg



View looking downstream of several tree stumps at the levee toe on the waterside.

LM Start	0.44	Rating **	U	Issue No.	72
LM End	0.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.316527 °	39.316527 °
				-121.633800 °	-121.633800 °
DWR ID	DWR_MA0007_01_f_2016_72				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
The decomposing stump is next to the canal on the landside and needs to be removed.					

Photo 1 of 1 : SP_2017_MA0007_200_72_20170316_00018.jpg



View of a stump on the landside slope looking downstream. This stump is next to the canal on the landside and is decomposing and needs to be removed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	0.56	Rating **	U	Issue No.	68
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.317974 °	39.317974 °
				-121.632542 °	-121.632542 °
DWR ID	DWR_MA0007_01_s _ 2016_68				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Eroding slope due to irrigation ditch on landside slope, looking downstream.					

Photo 1 of 2 : SP_2017_MA0007_200_68_20170327_00119.jpg



Inspection Spring 2017, erosion continues to get worse.

LM Start	0.56	Rating **	U	Issue No.	68 (cont)
LM End	0.56	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2017_MA0007_200_68_20170316_00015.jpg



View of eroding slope due to irrigation ditch on landside slope, looking downstream. Fall 2016.

LM Start	0.92	Rating **	A/W	Issue No.	67
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.323118 °	39.323118 °
				-121.632205 °	-121.632205 °
DWR ID	DWR_MA0007_01_s _ 2016_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2017_MA0007_200_67_20170316_00014.jpg



View of landside toe vegetation looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.00	Rating **	M	Issue No.	71
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.324172 °	39.325938 °
				-121.631792 °	-121.631853 °
DWR ID	DWR_MA0007_01_f_2016_71				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Waterside annual grasses that need to be maintained.					

Photo 1 of 1 : SP_2017_MA0007_200_71_20170316_00017.jpg



View of waterside annual grasses that need to be maintained. Looking downstream.

LM Start	1.55	Rating **	M	Issue No.	2
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.332000 °	39.334240 °
				-121.633178 °	-121.633908 °
DWR ID	DWR_MA0007_01_s_2016_2				
Comment Code					
Inspector Comment					
2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: FHR_47-5_R]					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.76	Rating **	M	Issue No.	75
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47836
DS_ID:16926
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. FIELD_STRUCT_DESC: 1 of 2: 60-inch drainage pipe through the levee, 12.5 feet below the crown. Slide gates in 78-inch corrugated metal pipe (CMP) wells on the waterside (WS) slope. Concrete bulkhead on both WS and landside (LS) ends. Reinforced concrete spillway an the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90)]
FS Date: 5/16/2016 10:22:42 AM

Photo 1 of 3 : UCIP_SP_2017_47836_65814.jpg



View of levee crown looking downstream.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.76	Rating **	M	Issue No.	75 (cont)
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47836
DS_ID:16926
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation.10/31/2012 Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. FIELD_STRUCT_DESC: 1 of 2: 60-inch drainage pipe through the levee, 12.5 feet below the crown. Slide gates in 78-inch corrugated metal pipe (CMP) wells on the waterside (WS) slope. Concrete bulkhead on both WS and landside (LS) ends. Reinforced concrete spillway an the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90)]
FS Date: 5/16/2016 10:22:42 AM

LM Start	1.76	Rating **	M	Issue No.	75 (cont)
LM End	1.76	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_47836_65813.jpg



78-inch CMP risers located on WS slope. Upstream riser (far left) missing riser cover. Reinforced concrete spillway also located on WS end.

Photo 3 of 3 : UCIP_SP_2017_47836_65812.jpg



View inside of CMP riser with slide gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.76	Rating **	M	Issue No.	76
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	39.334886 °		39.334886 °	
		-121.633783 °		-121.633783 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:47837
DS_ID:17011
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. FIELD_STRUCT_DESC: 2 of 2: 60-inch drainage pipe through the levee, 12.5 feet below the crown. Slide gates in 78-inch corrugated metal pipe (CMP) wells on the waterside (WS) slope. Concrete bulkhead on both WS and landside (LS) ends. Reinforced concrete spillway on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90)]
FS Date: 5/16/2016 10:23:00 AM

Photo 1 of 3 : UCIP_SP_2017_47837_65820.jpg



View of levee crown looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.76	Rating **	M	Issue No.	76 (cont)
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47837
 DS_ID:17011
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction.6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.10/31/2012 no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. FIELD_STRUCT_DESC: 2 of 2: 60-inch drainage pipe through the levee, 12.5 feet below the crown. Slide gates in 78-inch corrugated metal pipe (CMP) wells on the waterside (WS) slope. Concrete bulkhead on both WS and landside (LS) ends. Reinforced concrete spillway on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 1+90)]
 FS Date: 5/16/2016 10:23:00 AM

LM Start	1.76	Rating **	M	Issue No.	76 (cont)
LM End	1.76	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_47837_65819.jpg



78-inch CMP risers located on WS slope. Upstream riser (far left) missing riser cover. Reinforced concrete spillway also located on WS end.

Photo 3 of 3 : UCIP_SP_2017_47837_65818.jpg



View of crossing behind slide gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.82	Rating **	A	Issue No.	62
LM End	2.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.335774 °	39.345322 °
				-121.633888 °	-121.629603 °
DWR ID	DWR_MA0007_01_f_2016_62				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
This section of levee has been brought back to design elevation and the aggregate base placed.					

Photo 1 of 2 : SP_2017_MA0007_200_62_20170316_00013.jpg



View of levee that has been brought back to design elevation but still needs the aggregate base placed. Looking downstream. Fall 2016.

LM Start	1.82	Rating **	A	Issue No.	62 (cont)
LM End	2.53	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2017_MA0007_200_62_20170327_00120.jpg



View of levee that has been brought back to design elevation and the aggregate base placed. Looking upstream. Spring 2017.

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Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.94	Rating **	A/W	Issue No.	77
LM End	1.94	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.337408 °	39.337408 °
				-121.633480 °	-121.633480 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47975
DS_ID:16925
EP_NO: 18708
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1777+00, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears to be in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.10/31/2012 WS gate appears to be working. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0062 for broken flap gate on WS and half blocked by soil/vegetation on LS.
FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee, 6.5 feet below the crown. Concrete headwall at both toes. Flap gate on the waterside (WS) end. (Permit No. 18708 - 2011, Sandra Waller, permit issued in 2011 to continue using existing 24-inch pipe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 12+00)]
FS Date: 5/16/2016 10:23:00 AM

LM Start	1.94	Rating **	A/W	Issue No.	77 (cont)
LM End	1.94	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_47975_65825.jpg



Overview of levee crown looking upstream.

Photo 2 of 3 : UCIP_SP_2017_47975_65824.jpg



View of flap gate located on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	1.94	Rating **	A/W	Issue No.	77 (cont)
LM End	1.94	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.337408 °	39.337408 °
				-121.633480 °	-121.633480 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47975
DS_ID:16925
EP_NO: 18708
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1777+00, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears to be in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.10/31/2012 WS gate appears to be working. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0062 for broken flap gate on WS and half blocked by soil/vegetation on LS.
FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee, 6.5 feet below the crown. Concrete headwall at both toes. Flap gate on the waterside (WS) end. (Permit No. 18708 - 2011, Sandra Waller, permit issued in 2011 to continue using existing 24-inch pipe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 12+00)]
FS Date: 5/16/2016 10:23:00 AM

Photo 3 of 3 : UCIP_SP_2017_47975_65826.jpg



Crossing appears to be tar coated inside, unable to confirm damage to wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.09	Rating **	A/W	Issue No.	78
LM End	2.09	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.339266 °	39.339266 °
				-121.631847 °	-121.631847 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47976
DS_ID:16924
EP_NO: 18709
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1785+24, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Periodic inspection issue has been resolved and gate is clear to operate normally.10/31/2012 This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0070 for inoperable flap gate filled with gravel.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on both WS and landside (LS). Concrete apron located on the WS end. (Permit No. 18709, 2011 - Sandra Waller, permit issued in 2011 to continue the use of existing 24-inch pipe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 19+30)]
FS Date: 5/16/2016 10:23:00 AM

Photo 1 of 3 : UCIP_SP_2017_47976_65833.jpg



Overview of levee crown looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.09	Rating **	A/W	Issue No.	78 (cont)
LM End	2.09	Issue Type +	Ma	Location *	CR
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	39.339266 °		39.339266 °	
		-121.631847 °		-121.631847 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:47976
DS_ID:16924
EP_NO: 18709
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1785+24, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Periodic inspection issue has been resolved and gate is clear to operate normally.10/31/2012 This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0070 for inoperable flap gate filled with gravel.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on both WS and landside (LS). Concrete apron located on the WS end. (Permit No. 18709, 2011 - Sandra Waller, permit issued in 2011 to continue the use of existing 24-inch pipe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 19+30)]
FS Date: 5/16/2016 10:23:00 AM

Photo 2 of 3 : UCIP_SP_2017_47976_65832.jpg



Crossing with concrete apron and flap gate located on WS end.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.09	Rating **	A/W	Issue No.	78 (cont)
LM End	2.09	Issue Type +	Ma	Location *	CR
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	39.339266 °		39.339266 °	
		-121.631847 °		-121.631847 °	
DWR ID					

Photo 3 of 3 : UCIP_SP_2017_47976_65831.jpg



View of levee slope at crossing looking downstream.

Comment Code					
Inspector Comment					
FS_ID:47976 DS_ID:16924 EP_NO: 18709 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1785+24, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 Periodic inspection issue has been resolved and gate is clear to operate normally.10/31/2012 This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0070 for inoperable flap gate filled with gravel. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on both WS and landside (LS). Concrete apron located on the WS end. (Permit No. 18709, 2011 - Sandra Waller, permit issued in 2011 to continue the use of existing 24-inch pipe) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 19+30)] FS Date: 5/16/2016 10:23:00 AM					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.53	Rating **	A/W	Issue No.	61
LM End	3.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.345322 °	39.354627 °
				-121.629604 °	-121.635530 °
DWR ID	DWR_MA0007_01_f_2016_61				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
This section of levee is back to design elevation and crown rocked.					

Photo 1 of 2 : SP_2017_MA0007_200_61_20170327_00121.jpg



View of the levee that has been brought back to design elevation and rocked, looking upstream. Spring 2017.

LM Start	2.53	Rating **	A/W	Issue No.	61 (cont)
LM End	3.33	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2017_MA0007_200_61_20170316_00012.jpg



View of the levee that is currently under construction and has been degraded and is being brought back to design elevation, looking downstream. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.56	Rating **	M	Issue No.	81
LM End	2.56	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.345638 °	39.345638 °
				-121.629607 °	-121.629607 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48000
DS_ID:16910
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1809+65, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 WS sediment blocking gate has been cleared so gate can operate normally. Recommend clearing sediment buildup at mouth of pipe on LS.10/31/2012 WS headwall may be present not visible due to soil cover. Sediment build up on LS headwall--clear. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0083 for inoperable gate.
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 6.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall at both WS and landside (LS) toes. (USACE O&M Manual, 1957) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 44+50)]
FS Date: 5/16/2016 10:25:00 AM

Photo 1 of 3 : UCIP_SP_2017_48000_65849.jpg



View of levee crown looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.56	Rating **	M	Issue No.	81 (cont)
LM End	2.56	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.345638 °	39.345638 °
				-121.629607 °	-121.629607 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48000 DS_ID:16910 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1809+65, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCa project recommends replacing in accordance with title 23.5/7/2013 WS sediment blocking gate has been cleared so gate can operate normally. Recommend clearing sediment buildup at mouth of pipe on LS.10/31/2012 WS headwall may be present not visible due to soil cover. Sediment build up on LS headwall--clear. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0083 for inoperable gate. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 6.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall at both WS and landside (LS) toes. (USACE O&M Manual, 1957) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 44+50)] FS Date: 5/16/2016 10:25:00 AM					

Photo 2 of 3 : UCIP_SP_2017_48000_65852.jpg



View of flap gate located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.56	Rating **	M	Issue No.	81 (cont)
LM End	2.56	Issue Type +	Ma	Location *	CR
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	39.345638 °		39.345638 °	
		-121.629607 °		-121.629607 °	
DWR ID					

Photo 3 of 3 : UCIP_SP_2017_48000_65851.jpg



View of LS slope.

Comment Code					
Inspector Comment					
FS_ID:48000 DS_ID:16910 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1809+65, will be removed and replaced as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Pipe appears in good condition. No noticeable issues to report.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends replacing in accordance with title 23.5/7/2013 WS sediment blocking gate has been cleared so gate can operate normally. Recommend clearing sediment buildup at mouth of pipe on LS.10/31/2012 WS headwall may be present not visible due to soil cover. Sediment build up on LS headwall--clear. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0083 for inoperable gate. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 6.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall at both WS and landside (LS) toes. (USACE O&M Manual, 1957) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 44+50)] FS Date: 5/16/2016 10:25:00 AM					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.73	Rating **	M	Issue No.	82
LM End	2.73	Issue Type +	Ma	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.347977 °	39.347977 °	
			-121.630337 °	-121.630337 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:49199
DS_ID:16921
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1818+72, will be removed and replaced with a 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Riser is still damaged and cant locate signs of pipe on LS.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on WS.10/31/2012 CMP riser damage-repair needed. Unable to locate pipe on LS. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 52+50)]
FS Date: 5/16/2016 10:25:00 AM

LM Start	2.73	Rating **	M	Issue No.	82 (cont)
LM End	2.73	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_49199_65855.jpg



Overview of levee crown looking upstream.

Photo 2 of 3 : UCIP_SP_2017_49199_65854.jpg



View of WS slope looking upstream. Matt is standing near CMP riser.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	2.73	Rating **	M	Issue No.	82 (cont)
LM End	2.73	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.347977 °	39.347977 °
				-121.630337 °	-121.630337 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49199
DS_ID:16921
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1818+72, will be removed and replaced with a 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Riser is still damaged and cant locate signs of pipe on LS.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on WS.10/31/2012 CMP riser damage-repair needed. Unable to locate pipe on LS. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 52+50)]
FS Date: 5/16/2016 10:25:00 AM

Photo 3 of 3 : UCIP_SP_2017_49199_65853.jpg



View of LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	3.02	Rating **	M	Issue No.	84
LM End	3.02	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47981
DS_ID:16918
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. 12-inch and 24-inch crossings, referenced as STA 1834+42, will be removed and replaced with a 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Same as last inspection.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NOV.10/31/2012 Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported.
FIELD_STRUCT_DESC: 12-inch steel drainage pipe sleeved through existing 24-inch pipe. The 24-inch corrugated metal pipe goes through the levee at approximately 15.3 feet below the crown. Flap gate inside riser on the WS end. A reinforced concrete pipe riser located on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 69+00)]
FS Date: 5/16/2016 10:26:00 AM

Photo 1 of 3 : UCIP_SP_2017_47981_65872.jpg



View of levee crown looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	3.02	Rating **	M	Issue No.	84 (cont)
LM End	3.02	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47981
DS_ID:16918
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. 12-inch and 24-inch crossings, referenced as STA 1834+42, will be removed and replaced with a 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Same as last inspection.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NOV.10/31/2012 Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported.
FIELD_STRUCT_DESC: 12-inch steel drainage pipe sleeved through existing 24-inch pipe. The 24-inch corrugated metal pipe goes through the levee at approximately 15.3 feet below the crown. Flap gate inside riser on the WS end. A reinforced concrete pipe riser located on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 69+00)]
FS Date: 5/16/2016 10:26:00 AM

Photo 2 of 3 : UCIP_SP_2017_47981_65871.jpg



View of WS looking at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	3.02	Rating **	M	Issue No.	84 (cont)
LM End	3.02	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47981
DS_ID:16918
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. 12-inch and 24-inch crossings, referenced as STA 1834+42, will be removed and replaced with a 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/10/2015 Same as last inspection.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NOV.10/31/2012 Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported.
FIELD_STRUCT_DESC: 12-inch steel drainage pipe sleeved through existing 24-inch pipe. The 24-inch corrugated metal pipe goes through the levee at approximately 15.3 feet below the crown. Flap gate inside riser on the WS end. A reinforced concrete pipe riser located on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 69+00)]
FS Date: 5/16/2016 10:26:00 AM

Photo 3 of 3 : UCIP_SP_2017_47981_65875.jpg



View of additional appurtances associated with crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	3.32	Rating **	A/W	Issue No.	60
LM End	4.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.354596 °	39.365418 °
				-121.635404 °	-121.646539 °
DWR ID	DWR_MA0007_01_f_2016_60				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
This section of levee has been brought back to design elevation and the aggregate base placed.					

Photo 1 of 2 : SP_2017_MA0007_200_60_20170327_00122.jpg



View of levee that has been brought back to design elevation and the aggregate base placed. Looking upstream. Spring 2017

LM Start	3.32	Rating **	A/W	Issue No.	60 (cont)
LM End	4.29	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2017_MA0007_200_60_20170316_00011.jpg



View of levee that has been brought back to design elevation but still needs the aggregate base placed. Looking down stream. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	4.39	Rating **	M	Issue No.	6
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.366726 °	39.367606 °
				-121.647217 °	-121.647866 °
DWR ID	DWR_MA0007_01_s_2016_6				
Comment Code					
Inspector Comment					
2012 - Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: FHR_50-9_R]					

Photo 1 of 1 : SP_2017_MA0007_200_6_20170327_00123.jpg



Erosion repair photo Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	5.42	Rating **	M	Issue No.	88
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48005
DS_ID:16922
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1961+03, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5. The 2-60 inch pipes will be replaced with a single 36-inch pipe.6/10/2015 Sediment still blocking the flap gates on WS. LS inlet ebing overgrown by vegetation in the ditch.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection.11/5/2012 Sediment blocking flap gates on WS--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported.
FIELD_STRUCT_DESC: 1 of 2: 60-inch corrugated metal drainage pipe (downstream pipe) through the levee, 23.4 feet below the crown. Concrete headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Ditch at WS outlet. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 195+80)]
FS Date: 5/16/2016 10:29:00 AM

Photo 1 of 3 : UCIP_SP_2017_48005_65904.jpg



View of WS. Concrete headwall located at levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	5.42	Rating **	M	Issue No.	88 (cont)
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48005
DS_ID:16922
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1961+03, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5. The 2-60 inch pipes will be replaced with a single 36-inch pipe.6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection.11/5/2012 Sediment blocking flap gates on WS--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported.
FIELD_STRUCT_DESC: 1 of 2: 60-inch corrugated metal drainage pipe (downstream pipe) through the levee, 23.4 feet below the crown. Concrete headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Ditch at WS outlet. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 195+80)]
FS Date: 5/16/2016 10:29:00 AM

Photo 2 of 3 : UCIP_SP_2017_48005_65905.jpg



View of headwall structure on WS. Sediment built up

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	5.42	Rating **	M	Issue No.	88 (cont)
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:48005
DS_ID:16922
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1961+03, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5. The 2-60 inch pipes will be replaced with a single 36-inch pipe.6/10/2015 Sediment still blocking the flap gates on WS. LS inlet ebing overgrown by vegetation in the ditch.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection.11/5/2012 Sediment blocking flap gates on WS--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported.
FIELD_STRUCT_DESC: 1 of 2: 60-inch corrugated metal drainage pipe (downstream pipe) through the levee, 23.4 feet below the crown. Concrete headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Ditch at WS outlet. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 195+80)]
FS Date: 5/16/2016 10:29:00 AM

Photo 3 of 3 : UCIP_SP_2017_48005_65908.jpg



Sediment blocking gates on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	5.42	Rating **	M	Issue No.	89
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.380377 °	39.380377 °	
			-121.649319 °	-121.649319 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:48006
DS_ID:17013
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1961+10, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5. The 2-60 inch pipes will be replaced with a single 36-inch pipe.6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection.11/5/2012 Sediment blocking flap gate--need to remove sediment to make flap gates operational.
FIELD_STRUCT_DESC: 2 of 2: 60-inch corrugated metal drainage pipe (upstream pipe) through the levee, 23.4 feet below the crown. Concrete headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Ditch located at WS outlet. (USACE O&M Manual, 1957) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 195+80)]
FS Date: 5/16/2016 10:29:00 AM

LM Start	5.42	Rating **	M	Issue No.	89 (cont)
LM End	5.42	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_48006_65911.jpg



View of WS with clear slope.

Photo 2 of 3 : UCIP_SP_2017_48006_65910.jpg



View of headwall and flap gates located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	5.42	Rating **	M	Issue No.	89 (cont)
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.380377 °	39.380377 °
				-121.649319 °	-121.649319 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:48006
DS_ID:17013
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 1961+10, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5. The 2-60 inch pipes will be replaced with a single 36-inch pipe.6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection.11/5/2012 Sediment blocking flap gate--need to remove sediment to make flap gates operational.
FIELD_STRUCT_DESC: 2 of 2: 60-inch corrugated metal drainage pipe (upstream pipe) through the levee, 23.4 feet below the crown. Concrete headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. Ditch located at WS outlet. (USACE O&M Manual, 1957) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 195+80)]
FS Date: 5/16/2016 10:29:00 AM

Photo 3 of 3 : UCIP_SP_2017_48006_65909.jpg



WS--Sediment build up against flap gates.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	7.00	Rating **	A/W	Issue No.	54
LM End	7.90	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.392205 °	39.401297 °
				-121.627899 °	-121.630883 °
DWR ID	DWR_MA0007_01_f_2016_54				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
This portion of the levee brought back to design elevation and crown rocked.					

Photo 1 of 2 : SP_2017_MA0007_200_54_20170327_00124.jpg



View of this portion of the levee that has been degraded and is being brought back to design elevation and rocked. Spring 2017.

LM Start	7.00	Rating **	A/W	Issue No.	54 (cont)
LM End	7.90	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2017_MA0007_200_54_20170316_00010.jpg



View of this portion of the levee that is currently under construction that has been degraded and is being brought back to design elevation. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	9.06	Rating **	A/W	Issue No.	47
LM End	10.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.411263 °	39.426682 °
				-121.634730 °	-121.639426 °
DWR ID	DWR_MA0007_01_s_2016_47				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
This portion of the levee brought back to design elevation and crown rocked.					

Photo 1 of 2 : SP_2017_MA0007_200_47_20170327_00126.jpg



View of the portion of levee that has been degraded and is being brought back to design elevation and rocked looking upstream. Spring 2017.

LM Start	9.06	Rating **	A/W	Issue No.	47 (cont)
LM End	10.53	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP_2017_MA0007_200_47_20170316_00007.jpg



View of the portion of levee that is currently under construction that has been degraded and is being brought back to design elevation. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	10.68	Rating **	M	Issue No.	97
LM End	10.68	Issue Type +	Ma	Location *	CR
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	39.426781 °		39.426781 °	
		-121.642078 °		-121.642078 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:47991
DS_ID:16933
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2239+66, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 Still unable to find anything on the LS. SBFCA project recommends removal.12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends removal.5/10/2013 Same as last inspection.11/5/2012 nothing found on LS-residential; no headwall found on LS--has it been buried? Need to investigate if crossing is here. This crossing was listed in the USACE Periodic Inspection as ID#
USACE_CESPK_MA07_2010_a_0314 no issues reported.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete headwall at both waterside (WS) and landside (LS) toes. Flap gate in 36-inch concrete standpipe on the berm. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 471+26)]
FS Date: 5/16/2016 10:33:00 AM

LM Start	10.68	Rating **	M	Issue No.	97 (cont)
LM End	10.68	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_47991_65953.jpg



View of LS--no signs of crossing or appurtenances are present.

Photo 2 of 3 : UCIP_SP_2017_47991_65956.jpg



View of WS looking upstream at slope and concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	10.68	Rating **	M	Issue No.	97 (cont)
LM End	10.68	Issue Type +	Ma	Location *	CR
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	39.426781 °		39.426781 °	
		-121.642078 °		-121.642078 °	
DWR ID					

Photo 3 of 3 : UCIP_SP_2017_47991_65955.jpg



View of concrete standpipe located on WS.

Comment Code					
Inspector Comment					
FS_ID:47991 DS_ID:16933 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2239+66, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 Still unable to find anything on the LS. SBFCA project recommends removal.12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends removal.5/10/2013 Same as last inspection.11/5/2012 nothing found on LS-residential; no headwall found on LS--has it been buried? Need to investigate if crossing is here. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0314 no issues reported. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete headwall at both waterside (WS) and landside (LS) toes. Flap gate in 36-inch concrete standpipe on the berm. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 471+26)] FS Date: 5/16/2016 10:33:00 AM					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

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Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	11.08	Rating **	M	Issue No.	100
LM End	11.08	Issue Type +	Ma	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.431546 °	39.431546 °	
			-121.645474 °	-121.645474 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:47958
DS_ID:16939
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2260+55, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 Both pipe ends are beeing overgrown by vegetation and are getting hard to inspect. Vegetation needs to be cleared away.12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed.11/5/2012 flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee. 18.9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 494+50)]
FS Date: 5/16/2016 10:34:00 AM

LM Start	11.08	Rating **	M	Issue No.	100 (cont)
LM End	11.08	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_47958_65974.jpg



View of LS looking upstream at crossing.

Photo 2 of 3 : UCIP_SP_2017_47958_65973.jpg



View of WS looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	11.08	Rating **	M	Issue No.	100 (cont)	
LM End	11.08	Issue Type +	Ma	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.431546 °		39.431546 °
				-121.645474 °		-121.645474 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:47958 DS_ID:16939 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2260+55, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 Both pipe ends are beeing overgrown by vegetation and are getting hard to inspect. Vegetation needs to be cleared away.12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.11/7/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed.11/5/2012 flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee. 18.9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 494+50)] FS Date: 5/16/2016 10:34:00 AM						

Photo 3 of 3 : UCIP_SP_2017_47958_65977.jpg



View of WS slope and outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	11.12	Rating **	M	Issue No.	101
LM End	11.12	Issue Type +	Ma	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.432143 °	39.432143 °	
			-121.645516 °	-121.645516 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:47994
DS_ID:16938
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2262+69, will be removed and replaced with a new 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 Scour still present near the WS apron. 12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.11/7/2013 Same as last inspection.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/5/2012 burrow activity near headwall on LS; scour near concrete apron and below apron; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0336 no issues reported. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Concrete headwall at both waterside (WS) and landside (LS) toes. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 496+20)]
FS Date: 5/16/2016 10:35:00 AM

LM Start	11.12	Rating **	M	Issue No.	101 (cont)
LM End	11.12	Issue Type +	Ma	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_47994_65979.jpg



View of LS looking upstream at crossing.

Photo 2 of 3 : UCIP_SP_2017_47994_65978.jpg



View of WS looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	11.12	Rating **	M	Issue No.	101 (cont)
LM End	11.12	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.432143 °	39.432143 °
				-121.645516 °	-121.645516 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47994
DS_ID:16938
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2262+69, will be removed and replaced with a new 36-inch pipe as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 Scour still present near the WS apron. 12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.11/7/2013 Same as last inspection.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/5/2012 burrow activity near headwall on LS; scour near concrete apron and below apron; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0336 no issues reported. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Concrete headwall at both waterside (WS) and landside (LS) toes. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 496+20)]
FS Date: 5/16/2016 10:35:00 AM

Photo 3 of 3 : UCIP_SP_2017_47994_65982.jpg



View of inlet located on LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

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Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	03/23/2017 03/23/2017	Sterling York

LM Start	11.35	Rating **	M	Issue No.	103 (cont)
LM End	11.35	Issue Type +	Ma	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.435497 °	39.435497 °
				-121.645712 °	-121.645712 °
DWR ID					

Photo 3 of 3 : UCIP_SP_2017_48009_65992.jpg



CMP riser located on WS slope.

Comment Code					
Inspector Comment					
FS_ID:48009 DS_ID:16936 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2016 Feather River West Levee Improvement Project--Levee currently under construction. Crossing, referenced as STA 2274+86, will be removed as indicated in the project Plans for Construction of Feather River West Levee Project, Project Area A, Feather River West Levee Improvement Plans, Sta 1765+00 to 2368+26, Volume 3 of 5.6/11/2015 LS inlet is still mostly buried with soil. SBFCA project recommends removal.12/30/2014 Same as last inspection.5/20/2014 Same as last inspection.5/13/2013 SBFCA project recommends removal.5/10/2013 Same as last inspection. LS inlet excavated but more than 50% still covered by soil.11/7/2013 Same as last inspection.11/5/2012 Non-fuctional crossing LS inlet buried; WS-debris in CMP riser, riser missing lid; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0344 for pipes filled > 50 % with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16.2 feet below the crown. Concrete headwall at both waterside (WS) and landside (LS) toes. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 508+40)] FS Date: 5/16/2016 10:57:00 AM					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	